



Colloque - June 24th - 25th, 2021

The representation of language in brains and machines

Convenors: Stanislas Dehaene, Stéphane Mallat, Luigi Rizzi

Program

9h30 > 18h - Amphithéâtre Marguerite de Navarre

Open to the public, within space limits, subject to availability
Ouvert au public, en demi-jauge, dans la limite des places disponibles

June 24th

9.30 Introduction, Stanislas Dehaene, Stéphane Mallat, Luigi Rizzi,
Collège de France

Semantics And Pragmatics: New Challenges For Machines? (1)

10.00 Philippe SCHLENKER, ENS, Paris
Grammatical inferences without words

10.40 Emmanuel CHEMLA, ENS, Paris
A linguistic learning bias found in humans, animals, and artificial learners

11.20 Break

The Acquisition Of Language

11.40 Anne CHRISTOPHE, ENS, Paris
Bootstrapping the syntactic bootstrapper

12.20 Naama FRIEDMANN*, Tel Aviv University
Developmental syntactic disorders and what they say about the critical period

13.00 Break

Natural Languages And Machine Learning Approaches

15.00 Kyunghyun CHO*, New York University
Few-shot learning is still difficult with large-scale language models

15.40 Tomas MIKOLOV*, FAIR, Paris
Neural language models: the successes, and the challenges

16.20 Break

16.40 Charles YANG, University of Pennsylvania
Why children and machines learn differently

17.20 Roger LEVI*, MIT
Grammatical generalization and language processing in humans and machines

18.00 General discussion

June 25th

Cognitive Challenges For Computational Approaches

09.30 Emmanuel DUPOUX*, ENS & FAIR, Paris
Simulating the emergence of linguistic categories in infants

10.10 Marco BARONI*, ICREA, Barcelona; FAIR, Paris
On the proper role of linguistically-oriented deep net analysis
in linguistic theorizing

10.50 Break

Advances In Syntax And Parsing

11.10 Andrea MORO & Cristiano CHESI*, Scuola Universitaria IUSS, Pavia
The limits of competence and processing: the case of copular
sentences

11.50 Paola MERLO*, University of Geneva
Beyond the Benchmarks: linguistically-informed notions of locality
and similarity in distributed spaces

12.30 Break

Semantics And Pragmatics: New Challenges For Machines? (2)

14.00 Gennaro CHIERCHIA*, Harvard University
Quantifiers in natural language: the interface between syntax and logic

14.40 Benjamin SPECTOR, ENS, Paris
Logic, grammar and distribution: the case of polarity items

15.20 Break

Syntax And Parsing By Brains And Machines

15.40 Christophe PALLIER, CNRS, Paris
Probing syntax and semantics in the brain

16.20 William MATCHIN, University of South Carolina
The cortical organization of syntax: a minimalist perspective

17.00 Break

17.20 Stanislas DEHAENE, Collège de France
Why humans still trump machines: the language of thought hypothesis

18.00 General Discussion

* These talks will happen via zoom
Ces interventions auront lieu via zoom



COLLÈGE
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